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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/725,030	12/02/2003	Dae Hong Kim	8733.937.00-US	2585	
. 30827 75	90 04/06/2006		EXAMINER		
MCKENNA LONG & ALDRIDGE LLP			CHUNG, DAVID Y		
1900 K STREET, NW WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER	
			2871		
			DATE MAILED: 04/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/725,030	KIM ET AL.				
		Examiner	Art Unit				
		David Y. Chung	2871				
Period fo	The MAILING DATE of this communicate or Reply	on appears on the cover sheet v	with the correspondence ac	ldress			
THE - Exte after - If the - If NC - Failu · Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA' nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) day of period for reply is specified above, the maximum statutor interest or reply within the set or extended period for reply will, the property received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a stion. It is, a reply within the statutory minimum of the period will apply and will expire SIX (6) MC by statute, cause the application to become a	n reply be timely filed irty (30) days will be considered timel NTHS from the mailing date of this c ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed or	n <u>18 January 2006</u> .					
2a)⊠	This action is FINAL . 2b)	☐ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,6-11,15,19 and 20 is/are rejected. 7) Claim(s) 2-5,12-14 and 16-18 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers						
9)[The specification is objected to by the Ex	aminer.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)	•					
1) Notic 2) Notic 3) Inform	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date	(48) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTC)-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1, 6-11, 15, 19 and 20 rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al. (U.S. 6,882,376).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

As to claims 1, 11, 15, 19 and 20, note figures 6A and 7A. In figures 6A and 7A, Kim discloses a gate line 121 having a bump shaped groove in the region where the gate line intersects data line 161. See column 5, line 63 – column 6, line 45. A thin film transistor is also formed next to the intersection of the gate and data lines as shown in

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figure 5. Kim teaches that liquid crystal devices have been widely used for color displays. See column 1, lines 25-30. This would require a color filter to be present in the device. Because the device of Kim is an active matrix device, it naturally follows that current is selectively supplied to the pixel electrode so that an electric filed is generated between the first and second substrates since this is how active matrix devices function. Kim teaches that liquid crystal devices comprise liquid crystal interposed between an upper and lower substrate. See column 1, lines 32-36.

As to claim 6, figure 7A shows that the top edge of the bump shaped groove overlaps the data bus line 161 near the center.

As to claims 7-10, figures 6A and 7A show that the bump shaped groove in the gate line has a somewhat saw tooth shaped structure and is formed to extend generally parallel to the gate line. The width of the groove is clearly narrower than that of the gate line.

Allowable Subject Matter

Claims 2-5, 12-14 and 16-18 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art did not teach or suggest a separate saw tooth structure or

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protrusion formed within the bump shaped groove in a region of the gate line that intersects with the data line.

Response to Arguments

Applicant's arguments filed January 18, 2006 have been fully considered but they are not persuasive. Applicant has argued that Kim (U.S. 6,882,376) does not disclose a bump shaped groove. However, examiner believes that the gate lines 121 shown in figure 6A contain what can be construed as bump shaped grooves in the region that overlap the data lines.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Chung whose telephone number is (571) 272-2288. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:00 pm.

David Chung GAU 2871 04/01/06 ANDREW SCHECHTER
PRIMARY FXAMINER